

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

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CATEGORY: Fire Dampers

LISTEE: C & S Air Products, 2824 N. Sylvania Ave, Fort Worth, TX 76111
Contact: Michael Beaver (817) 831-7038

DESIGN: Models FD-180, FSD-181 and FSD-182 single and multi blade type fire rated dampers. Unit is constructed of No. 20 Gage galvanized steel frame, No. 24 gage galvanized steel blades. Refer to listee's data sheet for detailed product description and operational considerations. Sizes of dampers are as follow:

<u>Model</u>	<u>Construction</u>	<u>Width, Inch</u>		<u>Height, Inch</u>	
		<u>Min.</u>	<u>Max.</u>	<u>Min.</u>	<u>Max.</u>
FSD	Single section	8	30	8	50
	Multiple section 8	90	8	100	
FD	Single section	8	30	8	50
	Multiple section 8	90	8	100	

RATING: 1-1/2 hour

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, classification and UL label.

APPROVAL: Listed as 1-1/2 hour fire-rated dampers for use in heating, ventilating and air conditioning systems passing through fire resistive walls and partitions. *Intended for use with approved damper operators. For vertical installation installations only.

NOTE: For leakage classification, refer to CSFM Listing No. 3230.

XLF: 3225-0368:115

*Rev. 09-11-01



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Date Issued: **JUNE 17, 2003** *Listing Expires **June 30, 2004***

Authorized By: **DIANE K. AREND, Senior Deputy**
Program Manager